

Encl #3

DDP 1225-61

COPY OF

LAC-104

LOCKHEED AIRCRAFT CORP.

ENGINEERING STUDY ☐CHANGE PROPOSAL ☒

DATE

2-17-61

AFFECTS :

WSPO ☒PROJECT ☒

NAME OF MAJOR COMPONENT

AIRPLANE

PART OR LOWEST SUBASSEMBLY

100 VA INVERTER

PART NO. & MODEL OR TYPE

LELAND MGE 93-2

TITLE OF PROPOSAL :

ADDITION OF EMERGENCY 100 VA INVERTER

NATURE OF PROPOSAL :

SEE PAGE 2

REASON FOR PROPOSAL :

To provide a cockpit controlled 100 VA Inverter to supply emergency AC power for continuous operation of essential instrument systems in the event of failure of the ship's main inverter. Switching to the "Emerg. Inv." position will de-energize the main inverter and disconnect all loads except the Attitude Gyro, MA-1 Compass, E.G.T. Ind., VOR and ADF which will be supplied emergency power. The VOR and ADF are included due to the low power required and to preclude complications required to transfer additional loads. Emergency loads total approximately 90 VA for most aircraft. (See attached Load Chart.)

ES

ESTIMATED COST AND TIME INVOLVED :

ADDITIONAL FUNDING REQUIRED :

CP

ESTIMATED COST FOR KITS OR PARTS : See Page 3

ADDITIONAL FUNDING REQUIRED : SP-1917 and SP-1918 (None)

ITEMS AFFECTED BY PROPOSAL :

SAFETY	MISSION EFFECT- TIVENESS	PERFORM- ANCE	OPERATING PROCEDURE	INTER- CHANGE ABILITY	WEIGHT OR WEIGHT & BALANCE	TOOLS & SUPPORT EQUIPMENT	MAINTEN- ANCE PROCEDURE	SERVICE LIFE	FLIGHT MANUAL	MAINTEN- ANCE MANUAL
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

EST. MAN/HRS. REQ'D. TO ACCOMPLISH CHANGE IN FIELD

SOURCE OF PARTS FOR KIT

LAC

AVAILABILITY 20 WEEKS AFTER APPROVAL

DISPOSITION OF SPARES AFFECTED

NONE

25X1A

INITIATED BY :

APPROVED : WSPO

Approved For Release 2003/01/30 : CIA-RDP81B00878R000600030052-1

NATURE OF PROPOSAL:

1. Install a 100VA (Leland P/N MGE 93-2) in all aircraft. This includes addition of a load relay, input circuit breaker, related wiring and replacing the existing cockpit Inverter control switch with a three position switch which provides manual selection of either main or emergency inverter operation, and an OFF position. The 100VA Inverter will be installed in the cockpit area originally occupied by the DY-77/AIC-10 Dynamotor (see *Note below). This is considered practicable as it is understood that GFE transistorized AIC-10 Interphone controls which do not require use of the Dynamotor have been installed on the majority of aircraft. Transistorized controls and elimination of the dynamotor will be required on all aircraft to accomplish the proposed installation. The input circuit breaker and plug-in type load transfer relay will be added to existing Q-bay panels. Power will be provided for the 100 VA Inverter by using the existing Inverter relay which is redundant after installation (per approved ECP-102) of the 500VA Inverter which has a built in relay.

* NOTE: An alternate location will be required for the 100VA Inverter on ship 722/389 because of an existing air duct in the proposed area. It is felt the installation on this aircraft can be best accomplished during scheduled IRAN (April '61) with appropriate engineering drawing revisions.

2. Prepare and issue a Service Bulletin.
3. Fabricate appropriate kits for 40 aircraft.
4. The Contractor is proceeding with this work in advance of written approval. A trial installation will be made and test flown in aircraft 393/953 at IRAN, and will be left intact when the aircraft is delivered.

25X1A

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TO	NAME AND ADDRESS	INITIALS	DATE
1.	material Br.	Off.	3/1/61
2.	contract Br.		
3.			
4.			
5.			
6.			
7.			
RETURN TO SENDER			
ACTION		CONCURRENCE	INFORMATION
COMMENT		FILE	SIGNATURE

REMARKS

LAC-104 for approval
+ return 7' cy.

FROM		PHONE NO.
NAME AND ADDRESS		

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